

**UTILITY
PATENT APPLICATION
TRANSMITTAL**

(Only for new nonprovisional applications under 37 CFR § 1.53(b))

Attorney Docket No.	1503.0930001
First Inventor	D. Agrafiotis
Title	Method, System and Computer Program Product for Representing Object Relationships in a Multidimensional Space
Express Mail Label No.	

APPLICATION ELEMENTS

See MPEP chapter 600 concerning utility patent application contents.

ADDRESS TO:Assistant Commissioner for Patents
Box Patent Application
Washington, DC 202311. ☒ Fee Transmittal Form (e.g., PTO/SB/17)
(Submit an original, and a duplicate for fee processing)2. ☐ Applicant claims small entity status.
See 37 CFR 1.27.3. ☒ Specification [Total Pages 40]
(preferred arrangement set forth below)
- Descriptive title of the Invention
- Cross Reference to Related Applications
- Statement Regarding Fed sponsored R & D
- Reference to sequence listing, a table,
or a computer program listing appendix
- Background of the Invention
- Brief Summary of the Invention
- Brief Description of the Drawings (if filed)
- Detailed Description
- Claim(s)
- Abstract of the Disclosure4. ☒ Drawing(s) (35 U.S.C. 113) [Total Sheets 12]5. Oath or Declaration [Total Pages 4]
a. ☒ Newly executed (original or copy)
b. ☐ Copy from a prior application (37 CFR 1.63(d))
(for continuation/divisional with Box 18 completed)
i. ☐ DELETION OF INVENTOR(S)
Signed statement attached deleting inventor(s)
named in the prior application, see 37 CFR §§
1.63(d)(2) and 1.33(b).6. ☒ Application Data Sheet. See 37 CFR 1.76.7. ☐ CD-ROM or CD-R in duplicate, large table or Computer Program
(Appendix)8. Nucleotide and/or Amino Acid Sequence Submission
(if applicable, all necessary)

- a. ☐ Computer Readable Form (CRF)
b. Specification Sequence Listing on:
i. ☐ CD-ROM or CD-R (2 copies); or
ii. ☐ paper
c. ☐ Statements verifying identity of above copies

ACCOMPANYING APPLICATION PARTS

9. ☒ Assignment Papers (cover sheet & document(s))
10. ☒ 37 CFR 3.73(b) Statement ☒ Power of Attorney
(when there is an assignee)
11. ☐ English Translation Document (if applicable)
12. ☐ Information Disclosure Statement (IDS)/PTO-1449 ☐ Copies of IDS Citations
13. ☐ Preliminary Amendment
14. ☒ Return Receipt Postcard (MPEP 503)
(Should be specifically itemized)
15. ☐ Certified Copy of Priority Document(s)
(if foreign priority is claimed)
16. ☐ Nonpublication Request under 35 U.S.C. 122 (b)(2)(B)(i). Applicant must attach form PTO/SB/35 or its equivalent.
17. ☒ Other: Authorization under 37 C.F.R. § 1.136(a)(3)
☒ Other: The name of the assignee is: 3-Dimensional Pharmaceuticals, Inc.

18. If a CONTINUING APPLICATION, check appropriate box, and supply the requisite information below and in a preliminary amendment, or in an Application Data Sheet under 37 CFR 1.76:

☐ Continuation ☐ Divisional ☐ Continuation-in-Part (CIP) of prior application No: ____/_____
Prior application information: Examiner _____ Group/Art Unit: _____

For CONTINUATION OR DIVISIONAL APPS only: The entire disclosure of the prior application, from which an oath or declaration is supplied under Box 5b, is considered a part of the disclosure of the accompanying continuation or divisional application and is hereby incorporated by reference. The incorporation can only be relied upon when a portion has been inadvertently omitted from the submitted application parts.

19. CORRESPONDENCE ADDRESS☒ Customer Number or Bar Code Label

Customer No. 26111

26111

(Insert Customer Number or Attach Bar Code Label here)

or ☐ Correspondence address below

NAME	STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.			
ADDRESS	Attorneys at Law			
CITY	STATE	ZIP CODE		
COUNTRY	TELEPHONE	FAX		

NAME (Print/Type)	Patrick B. Garrett	Registration No. (Attorney/Agent)	39,987
SIGNATURE	<i>Patrick B. Garrett</i>	Date	7/3/01

04/03/01

JC74 U.S. PTO

JC997 U.S. PTO
09/823977
04/03/01

FEE TRANSMITTAL for FY 2001

Patent fees are subject to annual revision.

Complete if Known

Application Number	To Be Assigned
Filing Date	April 3, 2001
First Named Inventor	D. Agrafiotis
Examiner Name	To Be Assigned
Group Art Unit	To Be Assigned
Attorney Docket No.	1503.0930001

TOTAL AMOUNT OF PAYMENT (\$956.00)

METHOD OF PAYMENT (check one)

1. ☐ The Commissioner is hereby authorized to charge indicated fees and credit any overpayment to:

Deposit Account Number

19-0036

Deposit Account Name

Sterne, Kessler, Goldstein & Fox P.L.L.C.

- ☐ Charge Any Additional Fee Required Under 37 CFR §§ 1.16 and 1.17

- ☐ Applicant claims small entity status See 37 CFR 1.27

2. ☒ Payment Enclosed:

- ☒ Check ☐ Credit card ☐ Money Order ☒ Other*

*Charge any deficiencies or credit any overpayments in the fees or fee calculations of Parts 1, 2 and 3 below to Deposit Account No. 19-0036.

FEE CALCULATION

I. BASIC FILING FEE

Large Fee Code	Entity Fee (\$)	Small Fee Code	Entity Fee (\$)	Fee Description	Fee Paid
101	710	201	355	Utility filing fee	710.00
106	320	206	160	Design filing fee	
107	490	207	245	Plant filing fee	
108	710	208	355	Reissue filing fee	
114	150	214	75	Provisional filing fee	

SUBTOTAL (1) (\$) 710.00

2. EXTRA CLAIM FEES

Extra Fee from below Fee Paid
Total Claims 27 - 20** = 7 X \$18.00 = \$126.00

Indep. Claims 4 - 3** = 1 X \$80.00 = \$80.00

Multiple Dependent

Large Fee Code	Entity Fee (\$)	Small Fee Code	Entity Fee (\$)	Fee Description
103	18	203	9	Claims in excess of 20
102	80	202	40	Independent claims in excess of 3
104	270	204	135	Multiple dependent claim
108	80	209	40	**Reissue independent claims over original patent
110	18	210	9	**Reissue claims in excess of 20 and over original patent

SUBTOTAL (2) (\$) 206.00

**or number previously paid, if greater; For Reissues, see above

FEE CALCULATION (continued)

3. ADDITIONAL FEES

Large Entity Small Entity

Fee Code	Fee (\$)	Fee Code	Fee (\$)	Fee Description	Fee paid
105	130	205	65	Surcharge - late filing fee or oath	
127	50	227	25	Surcharge - late provisional filing fee or cover sheet	
139	130	139	130	Non-English specification	
147	2,520	147	2,520	For filing a request for <i>ex parte</i> reexamination	
112	920*	112	920*	Requesting publication of SIR prior to Examiner action	
113	1,840*	113	1,840*	Requesting publication of SIR after Examiner action	
115	110	215	55	Extension for reply within first month	
116	390	216	195	Extension for reply within second month	
117	890	217	445	Extension for reply within third month	
118	1,390	218	695	Extension for reply within fourth month	
128	1,890	228	945	Extension for reply within fifth month	
119	310	219	155	Notice of Appeal	
120	310	220	155	Filing a brief in support of an appeal	
121	270	221	135	Request for oral hearing	
138	1,510	138	1,510	Petition to institute a public use proceeding	
140	110	240	55	Petition to revive - unavoidable	
141	1,240	241	620	Petition to revive - unintentional	
142	1,240	242	620	Utility issue fee (or reissue)	
143	440	243	220	Design issue fee	
144	600	244	300	Plant issue fee	
122	130	122	130	Petitions to the Commissioner	
123	130	123	130	Petitions related to provisional applications	
126	180	126	180	Submission of Information Disclosure Stmt	
581	40	481	40	Recording each patent assignment per property (times number of properties)	\$40.00
146	710	246	355	Filing a submission after final rejection (37 CFR 1.129(a))	
149	710	249	355	For each additional invention to be examined (37 CFR 1.129(b))	
179	710	279	355	Request for Continued Examination (RCE)	
169	900	169	900	Request for expedited examination of a design application	

Other fee (specify) :


Other fee (specify) :

*Reduced by Basic Filing Fee Paid

SUBTOTAL (3) (\$) 40.00

SUBMITTED BY

Complete (if applicable)

Name (Print/Type)	Patrick E. Garrett	Registration No. (Attorney/Agent)	39,987	Telephone	202-371-2600
Signature		Date	4/3/01		

WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.

Burden Hour Statement: This form is estimated to take 0.2 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

SKGP Rev. 11/13/00 nmc

0930001feetrans

jc772 U.S. PTO



04/03/01

STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.

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jc997 U.S. PTO
09/823977
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**REGISTERED PATENT AGENT
***SENIOR COUNSEL

April 3, 2001

WRITER'S DIRECT NUMBER:

(202) 371-2587

INTERNET ADDRESS:

PGARRETT@SKGF.COM

Commissioner for Patents
Washington, D.C. 20231

Box Patent Application

Re: U.S. Non-Provisional Utility Patent Application under 37 C.F.R. § 1.53(b)
Appl. No. To Be Assigned; Filed: April 3, 2001
For: **Method, System and Computer Program Product for Representing
Object Relationships in a Multidimensional Space**
Inventors: Agraftotis *et al.*
Our Ref: 1503.0930001/PEG/TAD

Sir:

The following documents are forwarded herewith for appropriate action by the U.S.
Patent and Trademark Office:

1. PTO Fee Transmittal (Form PTO/SB/17)(*in duplicate*);
2. PTO Utility Patent Application Transmittal (Form PTO/SB/05);
3. Copy of Expedited Petition for License to File an Application in a Foreign
Country on an Invention Made in the United States Under 37 C.F.R.
§§5.11, 5.12, 5.13 and 5.14 filed on March 28, 2001;
4. Copy of date stamped postcard dated March 28, 2001;

Commissioner for Patents

April 3, 2001

Page 2

5. Faxed copy of Review Letter received from Licensing and Review Branch dated April 2, 2001;
6. Application Data Sheet;
7. U.S. Utility Patent Application entitled:

Method, System and Computer Program Product for Representing Object Relationships in a Multidimensional Space

and naming as inventors:

Dimitris K. Agrafiotis
Dmitrii N. Rassokhin
Victor S. Lobanov
F. Raymond Saleme

the application consisting of:

- a. A specification containing:
 - i. 32 pages of description prior to the claims;
 - ii. 7 pages of claims (1-27 claims); and
 - iii. a one (1) page abstract;
 - b. 12 sheets of drawings: (Figures 1-12); and
 - c. Faxed copy of executed combined Declaration and Power of Attorney;
8. Authorization to Treat a Reply As Incorporating An Extension of Time Under 37 C.F.R. § 1.136(a)(3);
 9. Recordation Form Cover Sheet; ✓
 10. Faxed copy of executed Assignment to 3-Dimensional Pharmaceuticals, recordation of which is hereby respectfully requested;

Commissioner for Patents

April 3, 2001

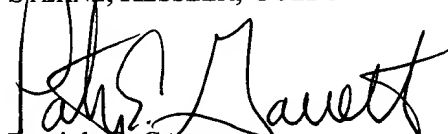
Page 3

11. Faxed copy of executed Power of Attorney from Assignee;
12. Faxed copy of Certificate under 37 C.F.R. § 3.73(b) from Assignee with a copy of the Assignment attached;
13. Two (2) return postcards; and
14. Our check No. 30841 for \$ 956.00 to cover:
 - \$ 710.00 Filing fee for patent application;
 - \$ 40.00 Assignment recordation fee(s); and
 - \$ 206.00 Fee for excess claims.

It is respectfully requested that, of the two attached postcards, one be stamped with the filing date of these documents and returned to our courier, and the other, prepaid postcard, be stamped with the filing date and unofficial application number and returned as soon as possible. The U.S. Patent and Trademark Office is hereby authorized to charge any fee deficiency, or credit any overpayment, to our Deposit Account No. 19-0036. A duplicate copy of this letter is enclosed.

Respectfully submitted,

STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.



Patrick B. Garrett

Attorney for Applicants

Registration No. 39,987

PEG/TAD:ayh

Enclosure

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

Agrafiotis *et al.*

Appl. No. To Be Assigned

Filed: April 3, 2001

For: **Method, System, and Computer
Program Product for
Representing Object
Relationships in a
Multidimensional Space**

Confirmation No.

Art Unit: To Be Assigned

Examiner: To Be Assigned

Atty. Docket: 1503.0930001



**Authorization To Treat A Reply As Incorporating An Extension Of
Time Under 37 C.F.R. § 1.136(a)(3)**

Commissioner for Patents
Washington, D.C. 20231

Sir:

The U.S. Patent and Trademark Office is hereby authorized to treat any concurrent or future reply that requires a petition for an extension of time under this paragraph for its timely submission, as incorporating a petition for extension of time for the appropriate length of time. The U.S. Patent and Trademark Office is hereby authorized to charge all required extension of time fees to our Deposit Account No. 19-0036, if such fees are not otherwise provided for in such reply. A duplicate copy of this authorization is enclosed.

Respectfully submitted,

STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.


Patrick E. Garrett

Attorney for Applicants

Registration No. 39,987

Date: 4/3/01

1100 New York Avenue, N.W.
Suite 600
Washington, D.C. 20005-3934
(202) 371-2600

JC997 U.S. PTO
09/823977
04/03/01

Applicant: Agraftotis *et al.*
Application No.: (to be assigned)
Filed: (not yet filed)
For: Method, System, and Computer Program Product for Representing Object Relationships in a Multidimensional Space

Due Date: N/A
Art Unit: (to be assigned)
Examiner: (to be assigned)
Docket: 1503.0930001/PEG/TAD
Atty: PEG

When receipt stamp is placed hereon, the USPTO acknowledges receipt of the following documents:

1. SKG&F cover letter (*in duplicate*);
2. Expedited Petition for License to File an Application in a Foreign Country on an Invention Made in the United States Under 37 C.F.R. §§ 5.11, 5.12, 5.13 and 5.14 (*in duplicate*);
3. Copy of application to be filed abroad, including: a. 23 pages of specification; b. 4 pages of claims (14 claims) c. 1 page abstract; and d. 11 sheets of drawings (Figures 1-11);
4. One (1) return postcard; and
5. SKG&F check no. 30792 in the amount of \$130.00 to cover the petition fee under 37 C.F.R. § 1.17(h).

09:41 AM 02/04/01

Via Hand Carry
Theresa Bradshaw
Crystal Park 5, Room 5D05
Arlington, VA 22202

Please Date Stamp And Return To Our Courier

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

Agrafiotis *et al.*

Appl. No. (to be assigned)

Filed: To be filed by April 3, 2001,
claiming priority to U.S. Provisional
Application 60/194,307, filed
April 3, 2000

For: **Method, System, and Computer
Program Product for Representing
Object Relationships in a
Multidimensional Space**

Confirmation No. (to be assigned)

Art Unit: (to be assigned)

Examiner: (to be assigned)

Atty. Docket: 1503.0930001/PEG/TAD



**Expedited Petition for License to File an Application
in a Foreign Country on an Invention Made in the United States
Under 37 C.F.R. §§ 5.11, 5.12, 5.13 and 5.14**

Commissioner for Patents
Attn: Licensing and Review
Washington, D.C. 20231

Sir:

Petitioners, by their undersigned representative, hereby request the granting of a license to file an application for patent in one or more foreign countries of an invention made in the United States of America.

Petitioners hereby request **expedited handling** of this petition in accordance with 37 C.F.R. § 5.12(b) because this application must be on file in one or more foreign countries not later than April 3, 2001. Accordingly, **THE COMMISSIONER IS HEREBY REQUESTED TO NOTIFY THE UNDERSIGNED BY TELEPHONE NO LATER THAN CLOSE OF BUSINESS MONDAY, APRIL 2, 2001, AT (202) 371-2600 IN ORDER THAT A**

The subject matter of the present invention is generally disclosed in U.S. provisional application 60/194,307 filed April 3, 2000. The provisional application is not subject to a secrecy order. However, the application to be filed in one or more foreign countries contains throughout the application subject matter not disclosed in these application. Petitioners herewith attach a copy of the application to be filed abroad.

The application to be filed in one or more foreign countries has a U.S. priority date of April 3, 2000. Accordingly, **THE COMMISSIONER IS RESPECTFULLY REQUESTED TO CONTACT THE UNDERSIGNED NO LATER THAN MONDAY APRIL 3, 2001 AT (202) 371-2600 IMMEDIATELY UPON THE DISPOSITION OF THIS PETITION.**

The petition fee of \$130.00 (37 C.F.R. 1.17(h)) is enclosed herewith by check no. 30792. The Commissioner hereby authorized to charge any fee deficiency, or credit any overpayment, to our Deposit Account No. 19-0036. A duplicate copy of this letter is enclosed.

Respectfully submitted,

STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.



Patrick B. Garrett
Attorney for Applicants
Registration No. 39,987

Date 3/28/01

1100 New York Avenue, N.W.
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